DECRYPTUM

DECRYPTUM PR 2080TI-S/4 4U

ENGINEERED FOR STABLE 24/7 OPERATION

KEY ADVANTAGES

TOP OF THE LINE SOLUTION FOR PASSWORD RECOVERY

We produce high-end performance systems, based on the quality components, provided by world's top manufacturers. Each system is made to be the leader in its class, showing unmatched performance in password recovery.

CONFIDENCE AND STABILITY.
RESULTS DELIVERED

We don't just liquid-cool chips, like many other manufacturers do. We liquid-cool all the critical components, such as CPU, GPU, and GPU-related components, allowing them to operate in comfortable conditions, which results in long life of our devices. When it comes to quality builds, look no further.

SILENTLY OUTPERFORMS ANY SIMILAR AIR-COOLED SOLUTION

We work closely with manufacturers of every component which we use in our device, to fine-tune the system for the high performance, silent operation, low power consumption and PUE ratio < 1,05. Simply saying, our systems are fast, silent and effective.

95K
±3%
Passwords/sec
in Office 2013-2019
with Passware

Ultra-compact liquid-cooled GPU accelerated devices for password recovery and decryption

Powered by

COMINO   Passware

FEATURES

10%

More performance compared to similar air-cooled systems. Better cooling means less mistakes made by the chip which equals in more things done right.

4 GPUs

4x Nvidia RTX 2080TI
in DECRYPTUM configuration.

PUE

Operate with Power Utilization Effectiveness (PUE) < 1,05.
The less PUE number is, the more efficient the system is.
Efficiency saves money.

SIMPLE MAINTENANCE.
FAST. RELIABLE. ENERGY EFFICIENT.

PASSWARE BENCHMARK RESULTS*

Encryption	Passwords / second
MS Office 2010	560 000
MS Office 2013+	95 000
macOS / FileVault2 / APFS	70 000
Apple iTunes Backup / iOS 10.x	1 300
RAR 5.x Archive	401 000
MS Windows / BitLocker	13 000

Powered by

Passware

* High performance mode (overall performance may vary ±3%).

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FRONT VIEW ILLUSTRATION

Intel i9 - 9900K CPU

3x 140mm Fans

Display

NVIDIA RTX 2080Ti

PCIe riser card
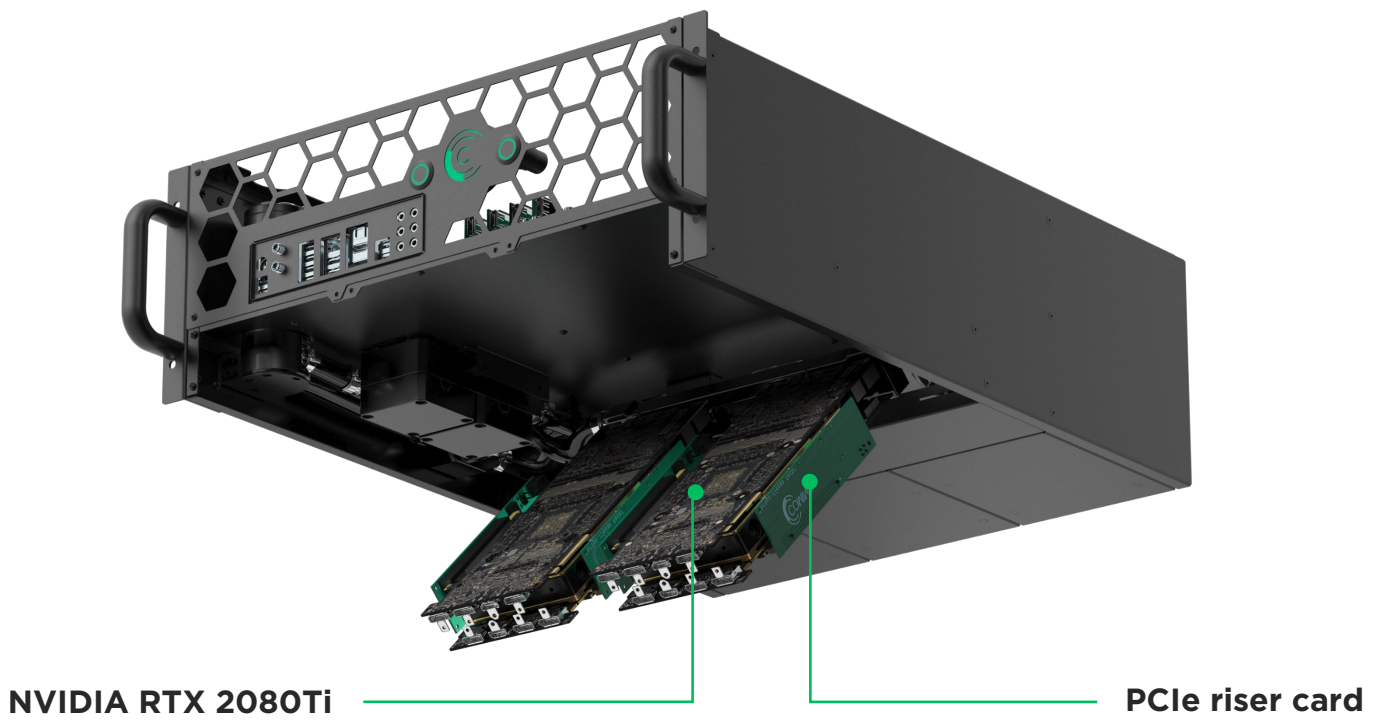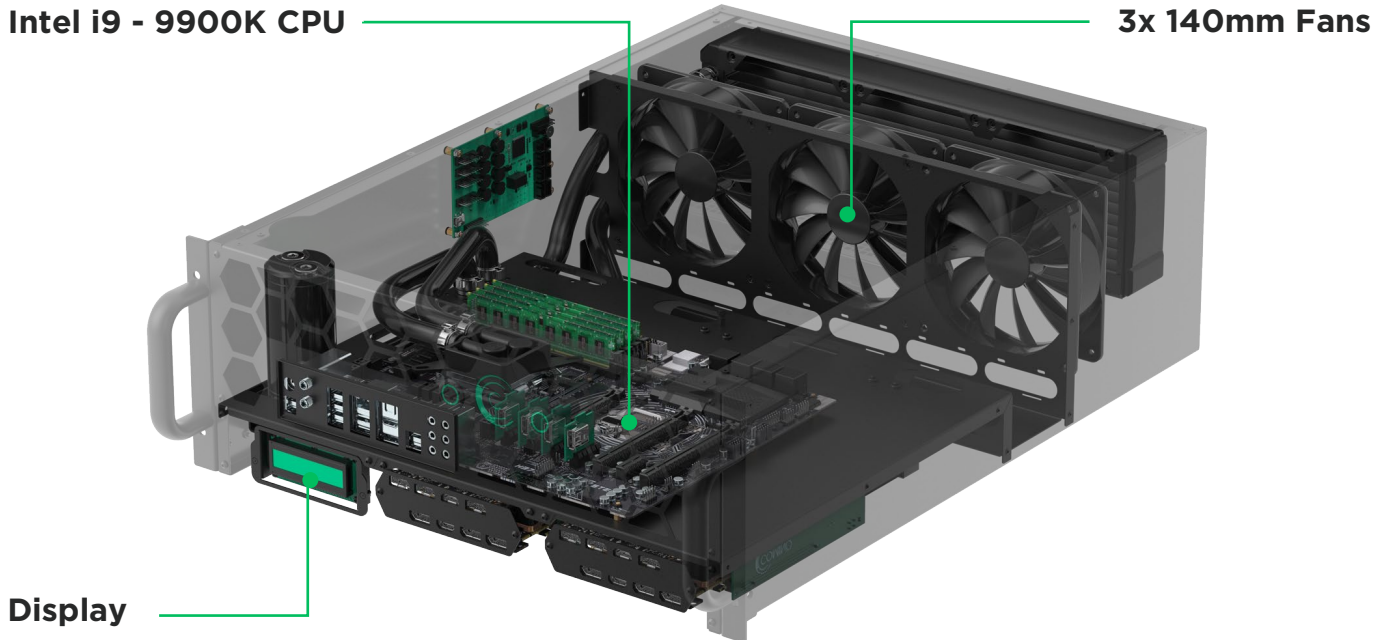
DECRYPTUM PR 2080TI-S/4 4U
BACK VIEW ILLUSTRATION

NVIDIA RTX 2080Ti

Comino Energia PSU 750W

PCIe riser card
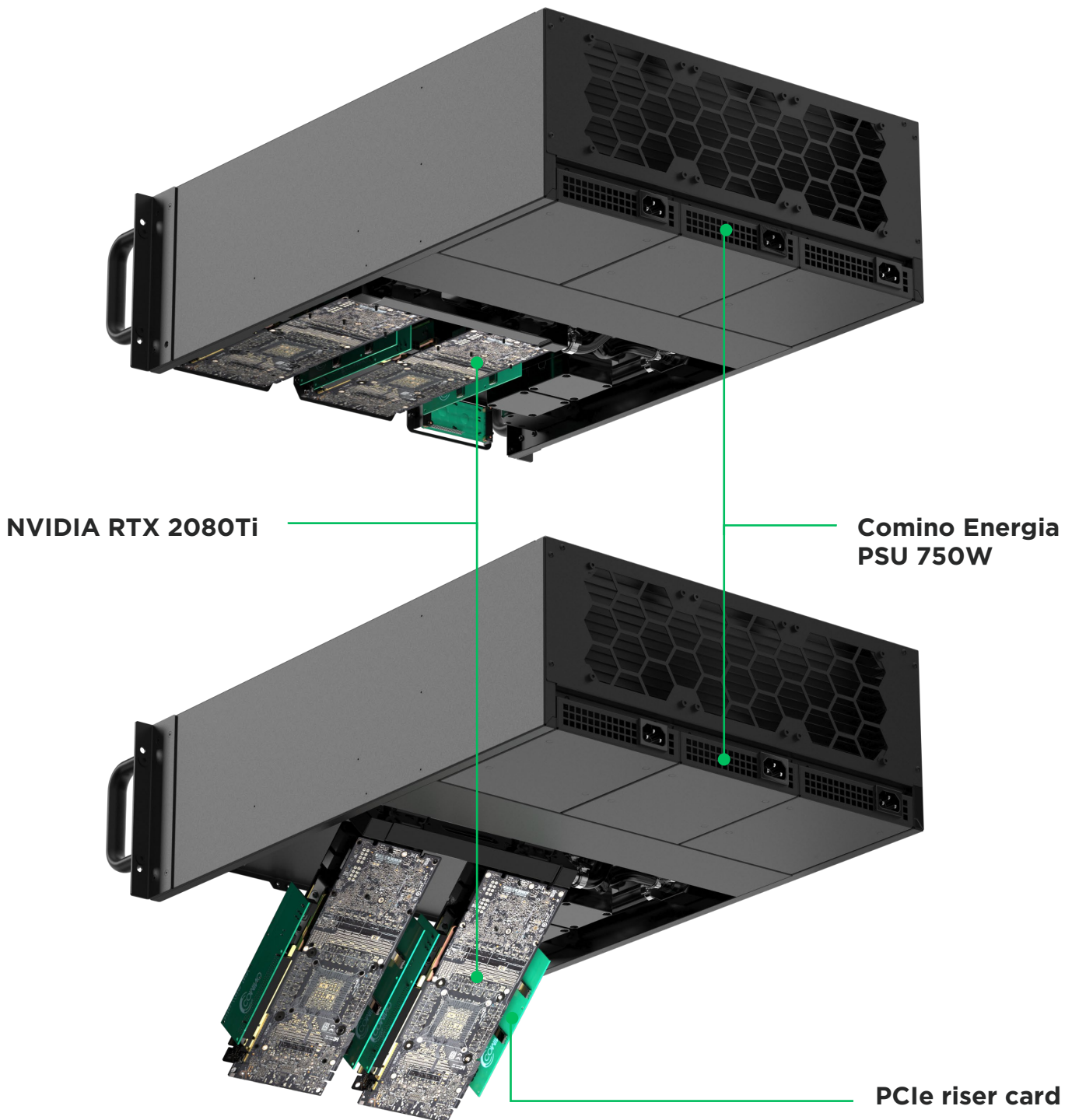
TECHNICAL SPECIFICATIONS

DECRYPTUM PR 2080TI-S/4 4U

Dimensions	446 x 605 x 178 mm (without rack-mounting handles)
GPU	ASUS ROG Strix GeForce RTX™ 2080 Ti
Graphics processor family	NVIDIA
Graphics processor	TU102-300-K2-A1
GPU Base Clock	1350 MHz
GPU Boost Clock (OC mode)	1665 MHz
CUDA cores	4352
CUDA support	Yes
Maximum resolution	7680 x 4320 pixels
Memory Interface	352-bit

TECHNICAL SPECIFICATIONS

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Discrete graphics adapter memory	11 GB
Memory speed	14 Gbit/s
Memory clock speed	14000 MHz
Memory bus	352 bit
Graphics adapter memory type	GDDR6
CPU	Intel® Core™ i9-9900K
Socket	LGA 1151v2
Lithography	14 nm
Number of Cores	8
Number of Threads	16

TECHNICAL SPECIFICATIONS

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Processor Base Frequency	3.00 GHz
Max Turbo Frequency	5.00 GHz
Cache	16 MB SmartCache
Bus Speed	8 GT/s DMI3
Motherboard	MSI B360-F PRO
Motherboard Chipset	Intel® B360 Chipset
CPU Socket support	LGA 1151v2 (14nm Processor support)
RAM Support	2 x DIMM, Max. 32GB, DDR4 2666/2400/2133 MHz Non-ECC, Un-buffered Memory (Supports Intel® Extreme Memory Profile (XMP)
PCIe expansion slots	1x Full size 16x PCIe Slot, 17x PCI-e 2.0 x1 slots
Storage	4x SATA 6Gb/s port(s)
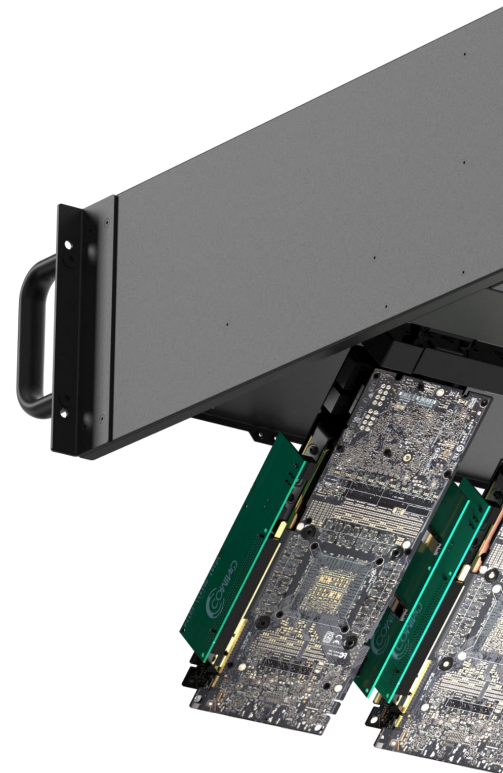
TECHNICAL SPECIFICATIONS

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Graphic	Integrated Graphics Processor Multi-VGA output support: HDMI/DVI-D ports • Supports HDMI with max. resolution 4096x2160 @ 30Hz/ 2560x1600@ 60 Hz • Supports DVI-D with max. resolution 1920x1200 @ 60 Hz Maximum shared memory of 1024 MB (for iGPU exclusively)
LAN	Intel® I219V, 1x Gigabit LAN Controller(s)
Form Factor	ATX Form Factor 30.5 cm x 23.1 cm 12 in x 9.1 in
RAM	32GB, DDR4 2666MHz Non-ECC, Un-buffered Memory
Storage	2.5 SATA-3 6Gb/s 256 Gb SSD
Power Supply	2x Proprietary PSU 750W 80+ Platinum, 100-240v 50/60Hz
Power Consumption	1.1 — 1.5kW
Liquid-cooling	2 double-sided fullcover waterblocks for 4x nVidia RTX2070S (copper coldplates remove heat from GPU chip, memory, VRM) 1 CPU waterblock
Operating System	Linux/Windows 10 Pro

TECHNICAL SPECIFICATIONS

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Network Connectivity	1 LAN port 1000Mbps (1 per 1)
Operating temperature	Ambient Air 10-35°C (20°C - recommended)
Placement Recommendations	19" rack-mountable (4U) or stand-alone as a Workstation
Rack AC Power Recommendations	220V AC power source with 2x C13 or 2x Schuko power sockets for each device setup

EXTRAS

- Decryptum PR 2080TI-S/4 4U is 19″ rack-mountable (4U) or can work stand-alone as a Workstation

- 2x AC Power Sockets (220V/110V) are needed for device setup (2x 750W)

- Ambient Temperature Range 10-35°C (20°C - recommended)

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